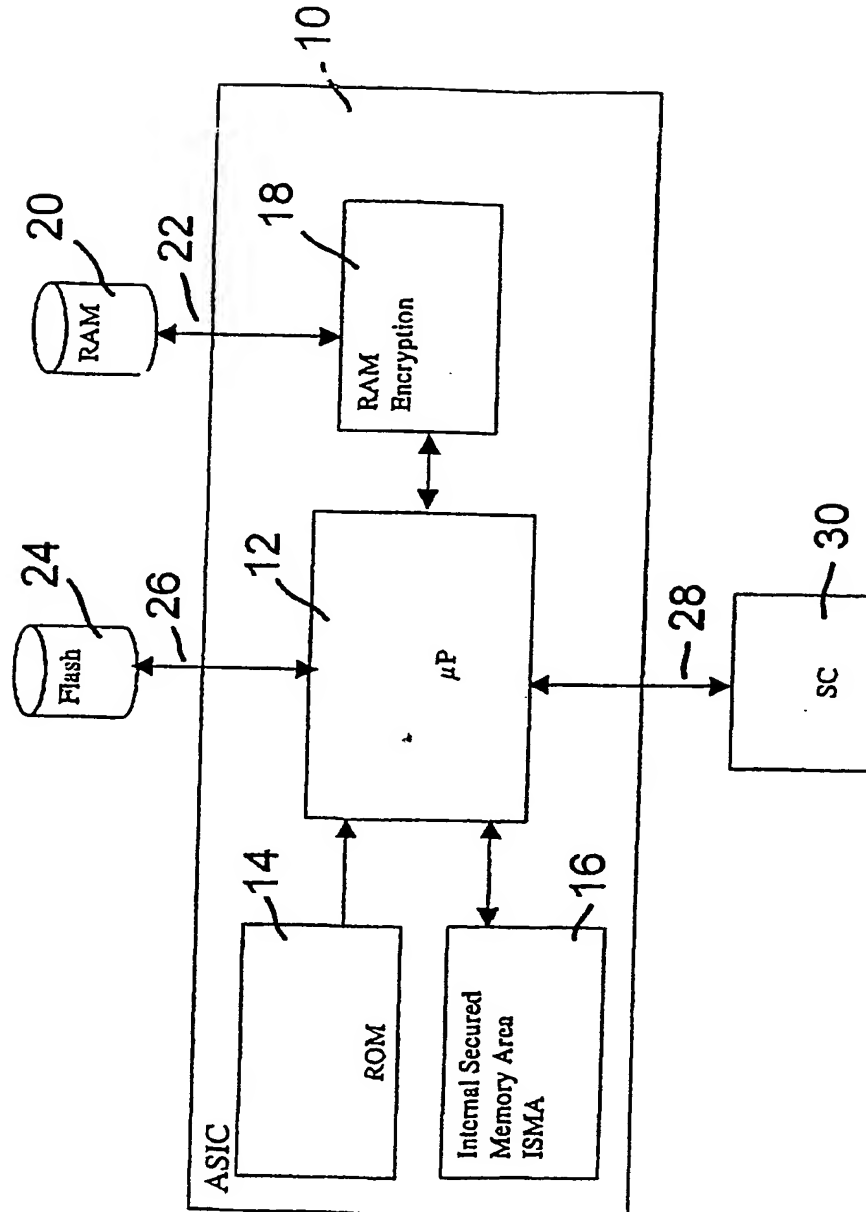
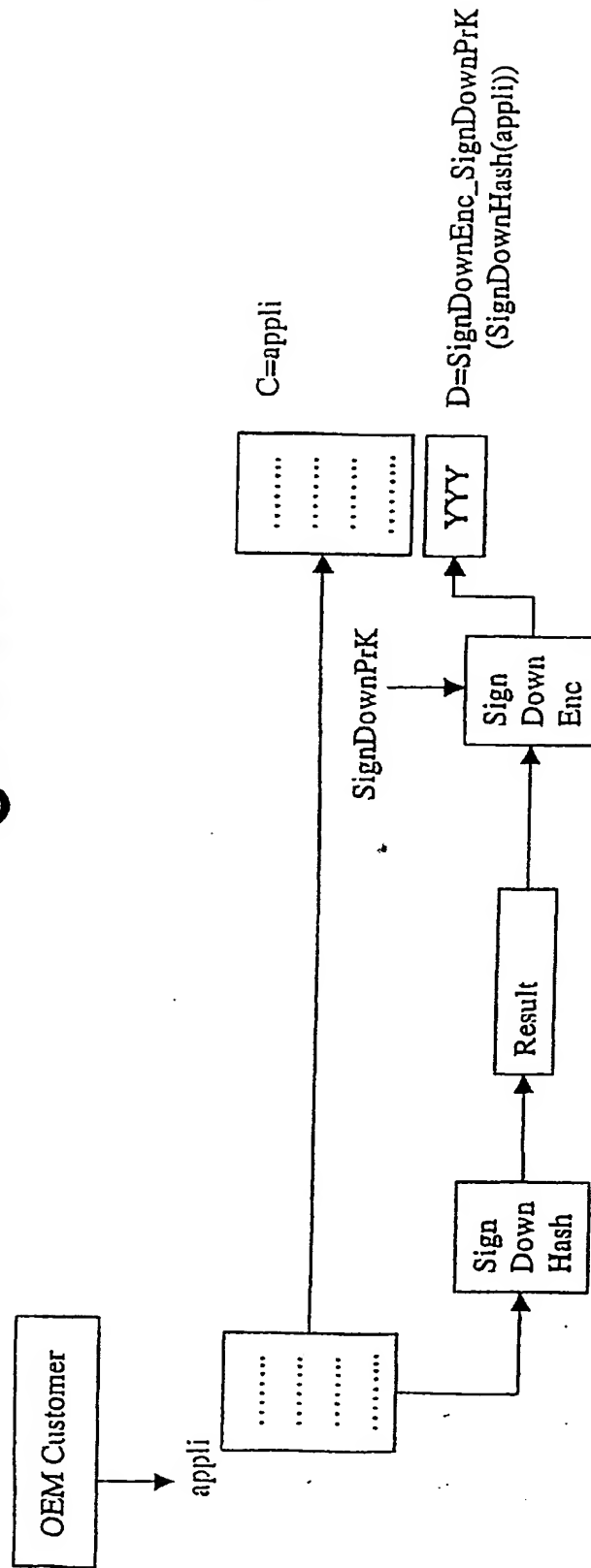


Figure 1



2/17

Figure 2A



The diagram illustrates the process of signing and encrypting an application (appli) for distribution to a customer. The process involves two main paths: one for signing and one for encryption.

Signing Path:

- The OEM Customer provides the application (appli).
- The application is processed by a Sign Down Hash block.
- The result of the hash is then processed by a Sign Down Enc block.
- The final output of the signing process is a signed application (appli).

Encryption Path:

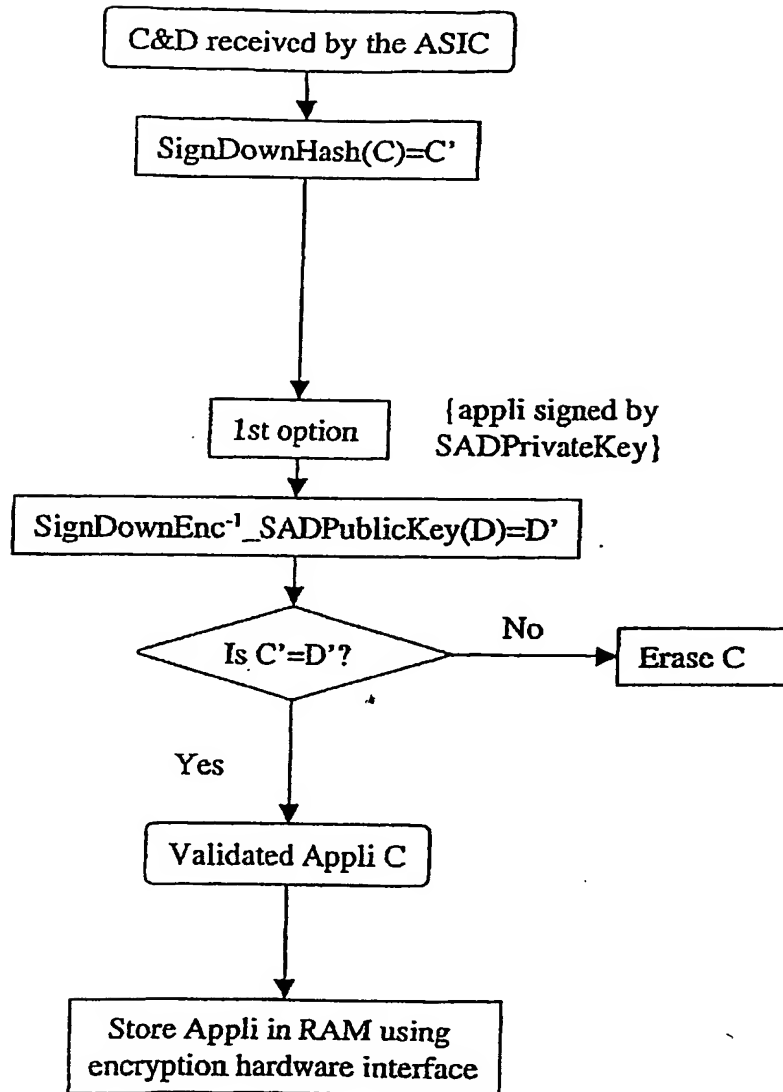
- The OEM Customer provides the application (appli).
- The application is processed by a Sign Down Hash block.
- The result of the hash is then processed by a Sign Down Enc block.
- The final output of the encryption process is a signed and encrypted application (appli).

Customer Side:

- The Customer receives the signed and encrypted application (appli).
- The application is decrypted using the Customer's private key (CustomerPrivateKey).
- The decrypted application is then signed using the Customer's private key (CustomerPrivateKey).
- The final output is a signed and encrypted application (appli).

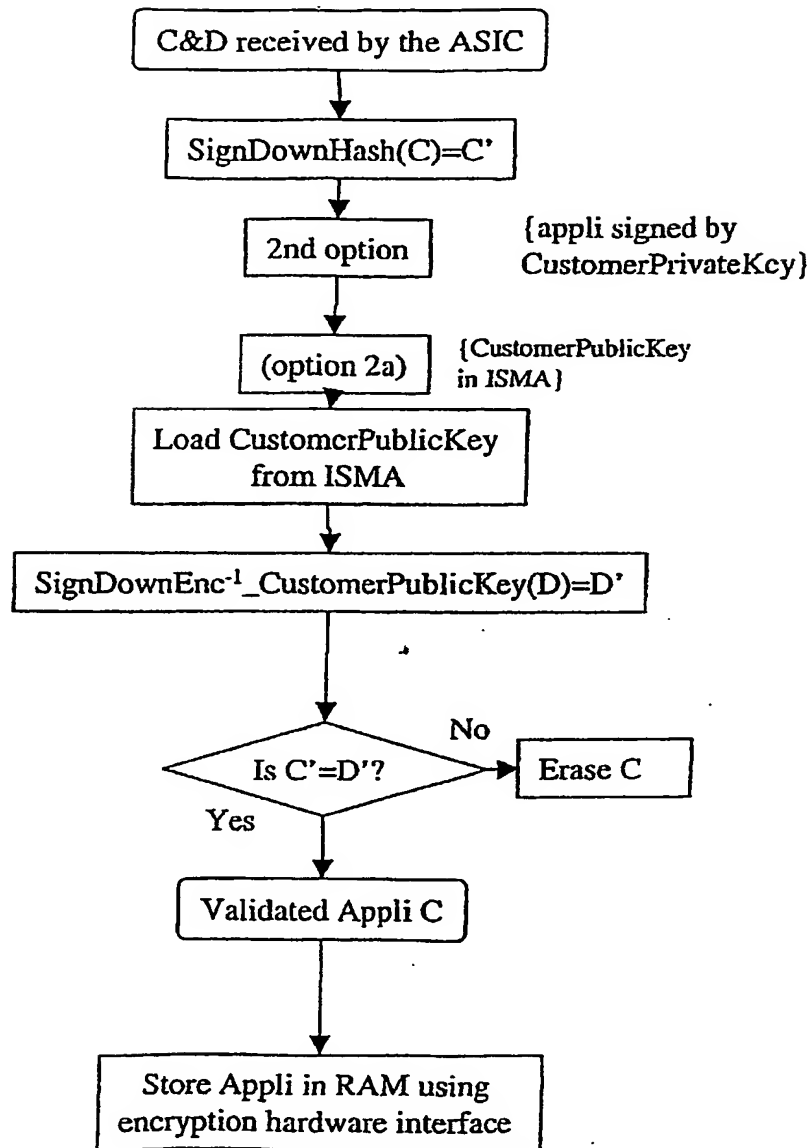
4/17

figure 3A



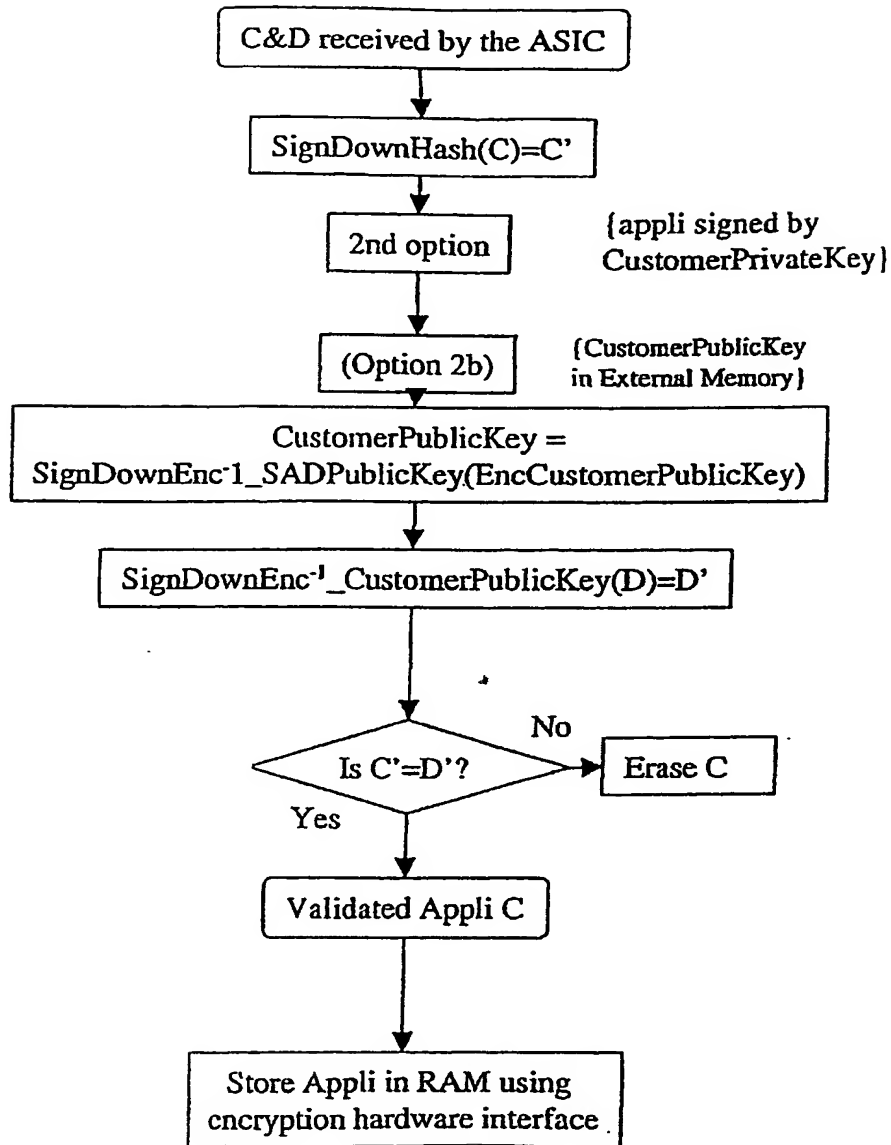
5/17

figure 3B



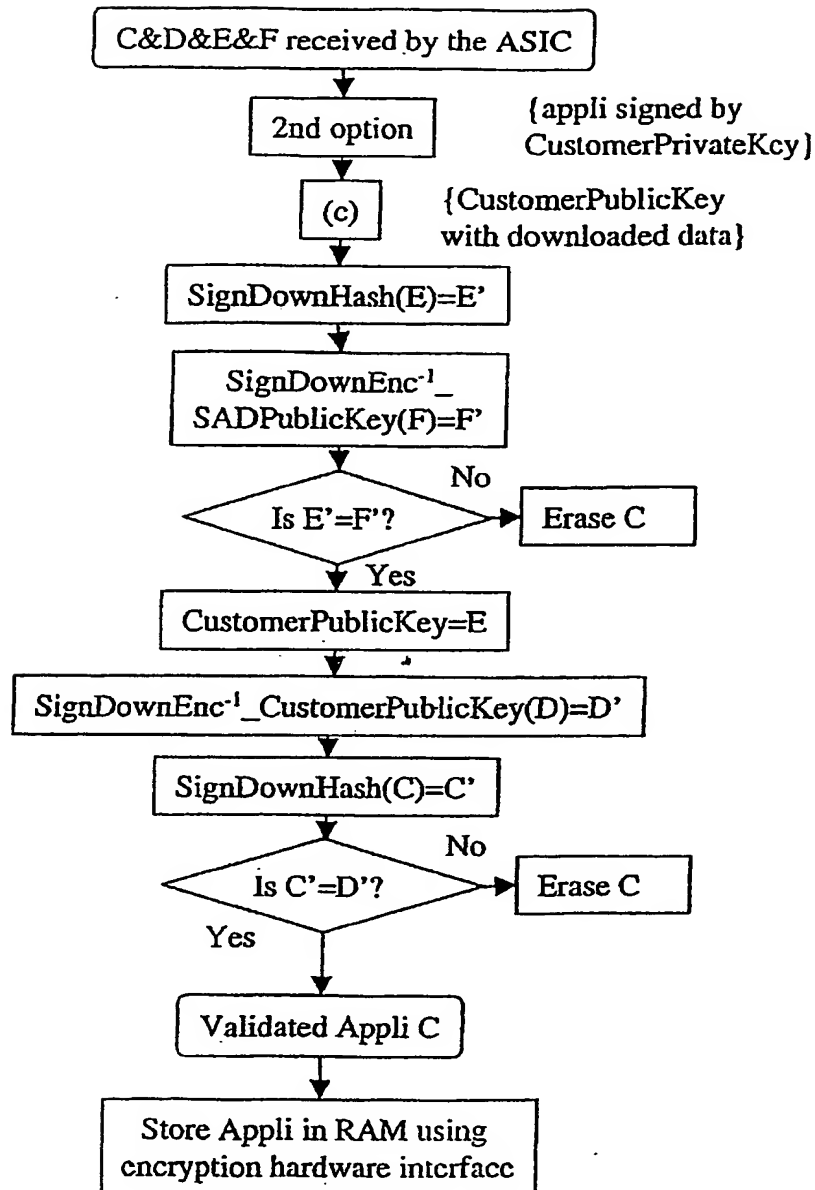
6/17

Figure 3C



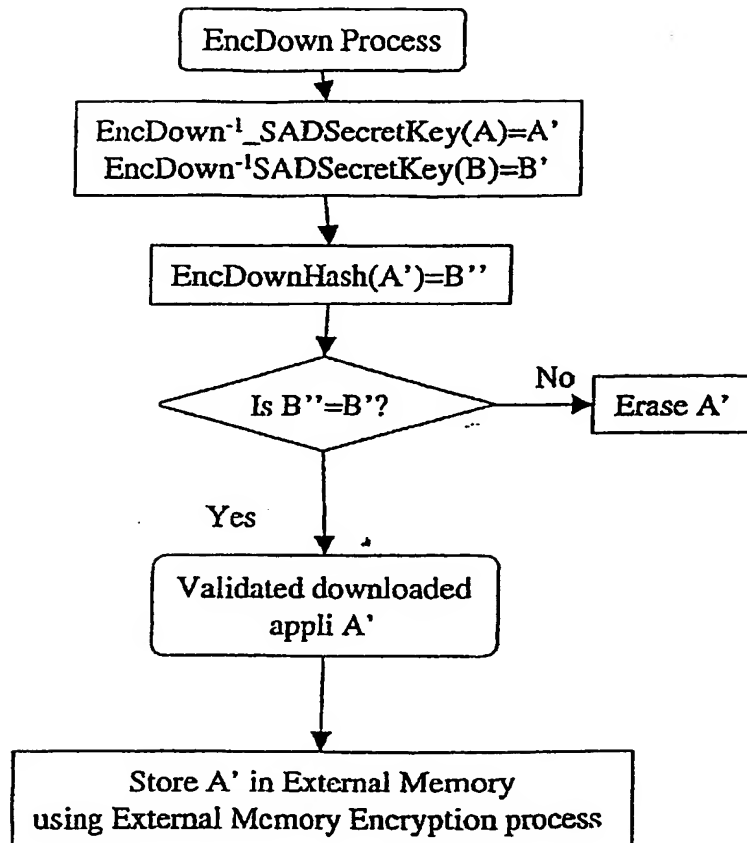
7/17

Figure 3D



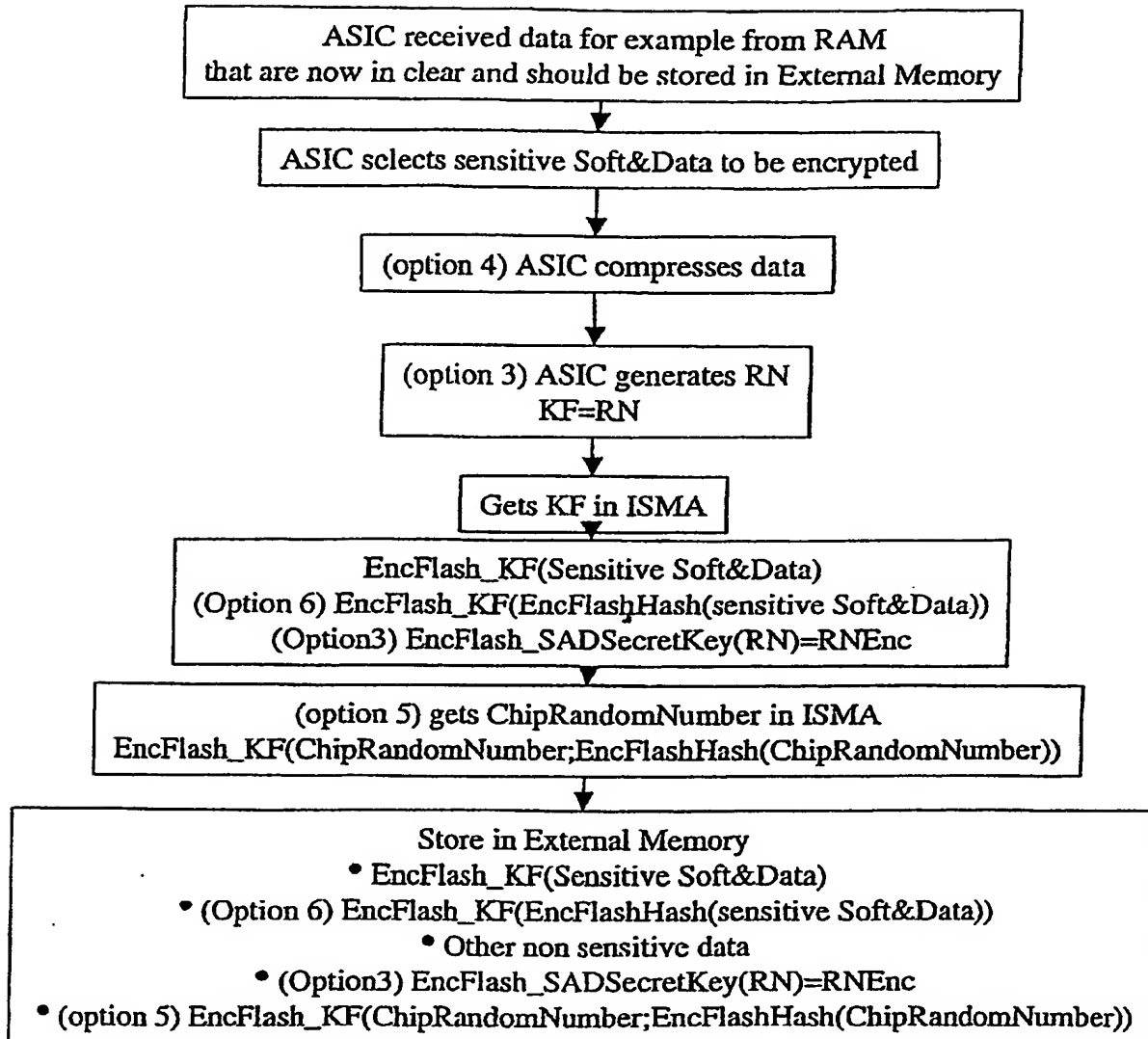
9/17

Figure 4B



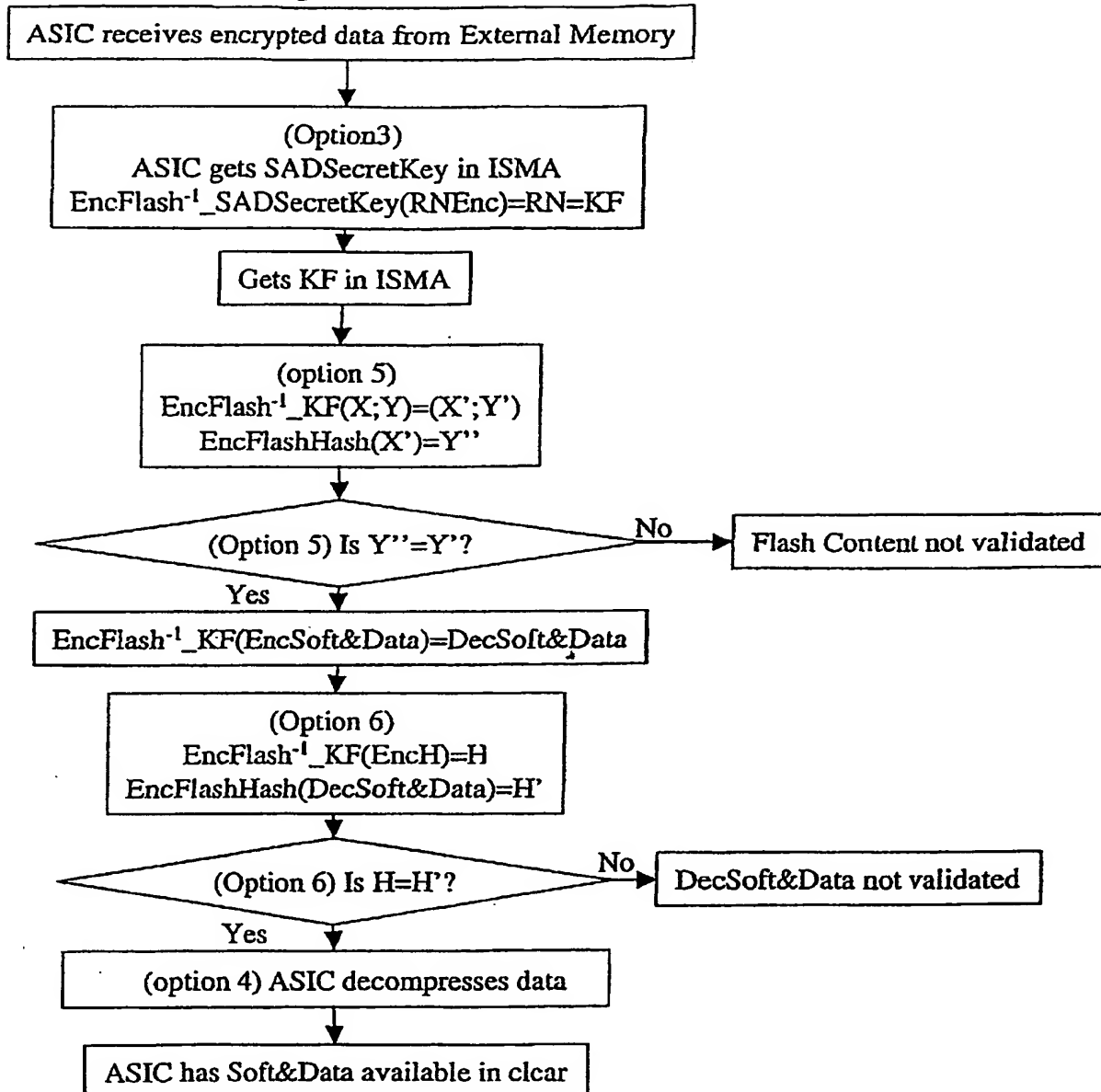
10/17

figure 5A



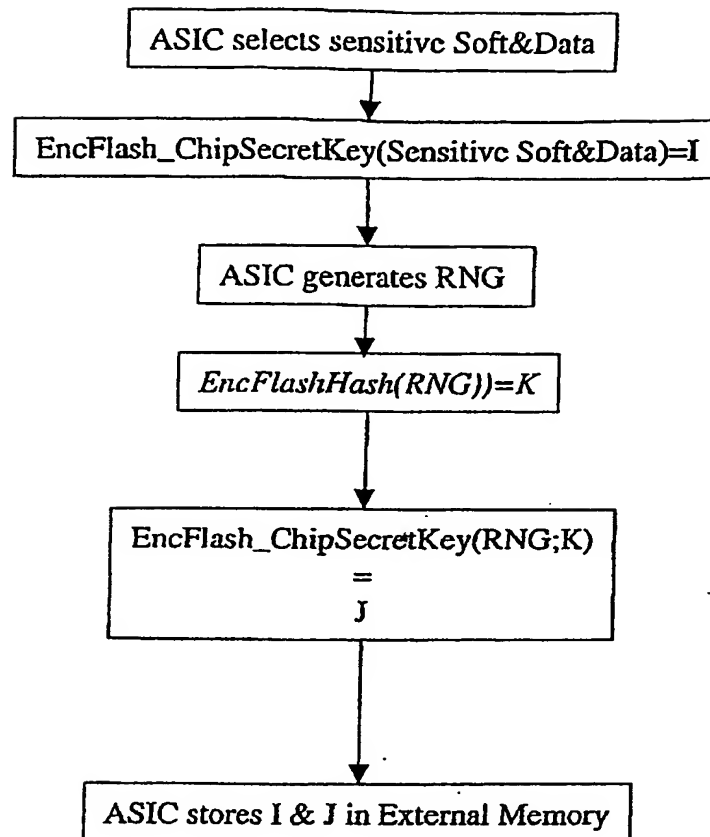
11/17

figure 5B



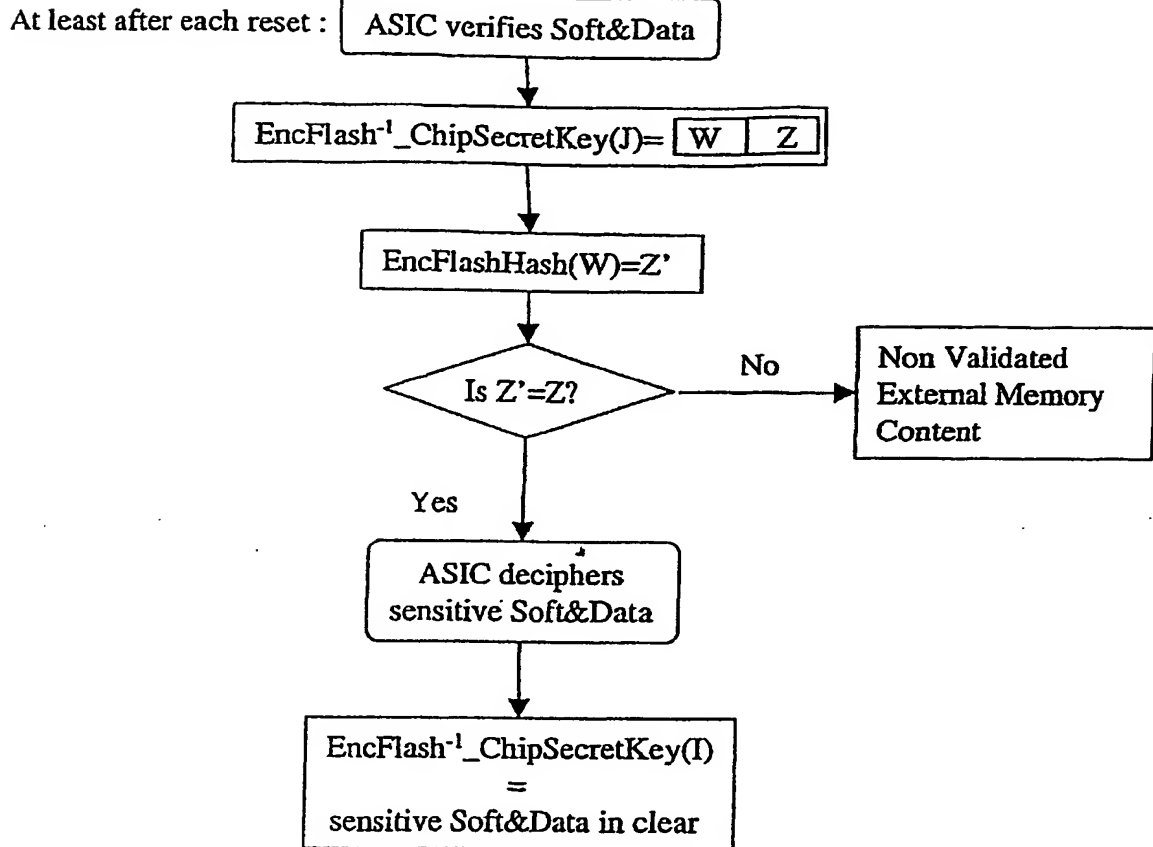
12/17

figure 6



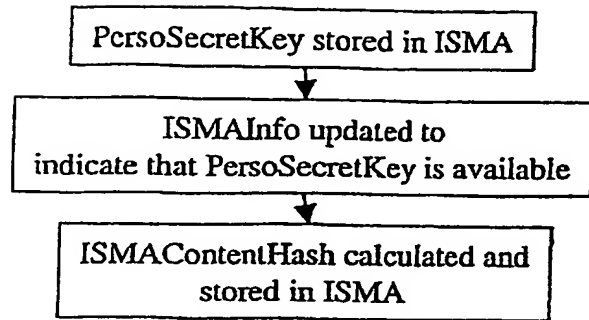
13/17

figure 7



14/17

figure 8



ISMA after First level personalization

ASIC ISMA :

	<i>f PersoSecretKey</i> <i>f ISMAInfo</i> <i>f ISMAContentHash</i>
--	--

figure 9

- SignPersHash is a hash function used to give a 20 Bytes result relevant to PersoAppli integrity
- SignPersEnc is an encryption (signature) algorithm used to encrypt the hash result asymmetrically with ADPrivateKey
- EncPers is an encryption symmetric algorithm used to encrypt the personalization software and eventually its signature

ISMA after Second level personalization

ASIC ISMA :

	<i>f Sensitive data</i> <i>f ISMAInfo</i> <i>f ISMAContentHash</i>
--	--

PersoAppli will store sensitive data corresponding to the different option corresponding to the OEM customer requirements. It could be run directly or stored in the External Memory using EncFlash_PersoSecretKey (means KF = PersoSecretKey).

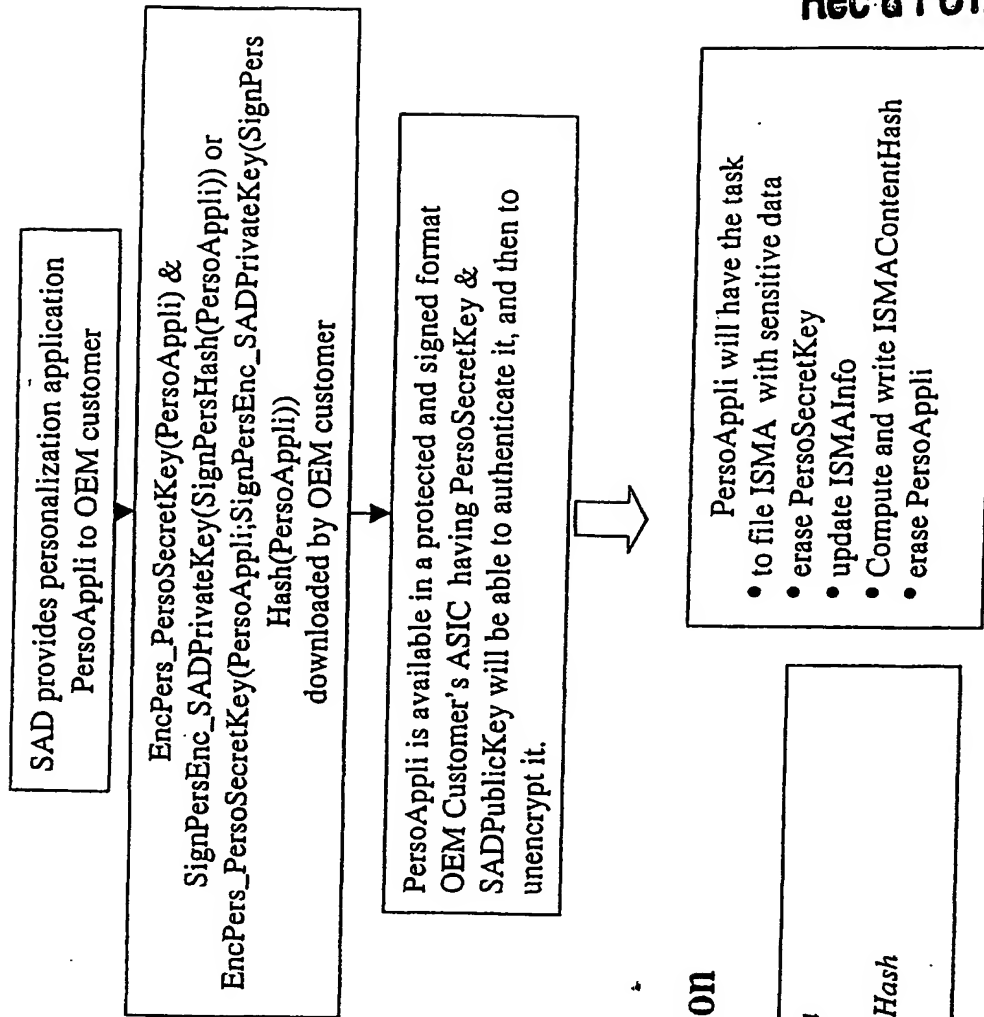


figure 10

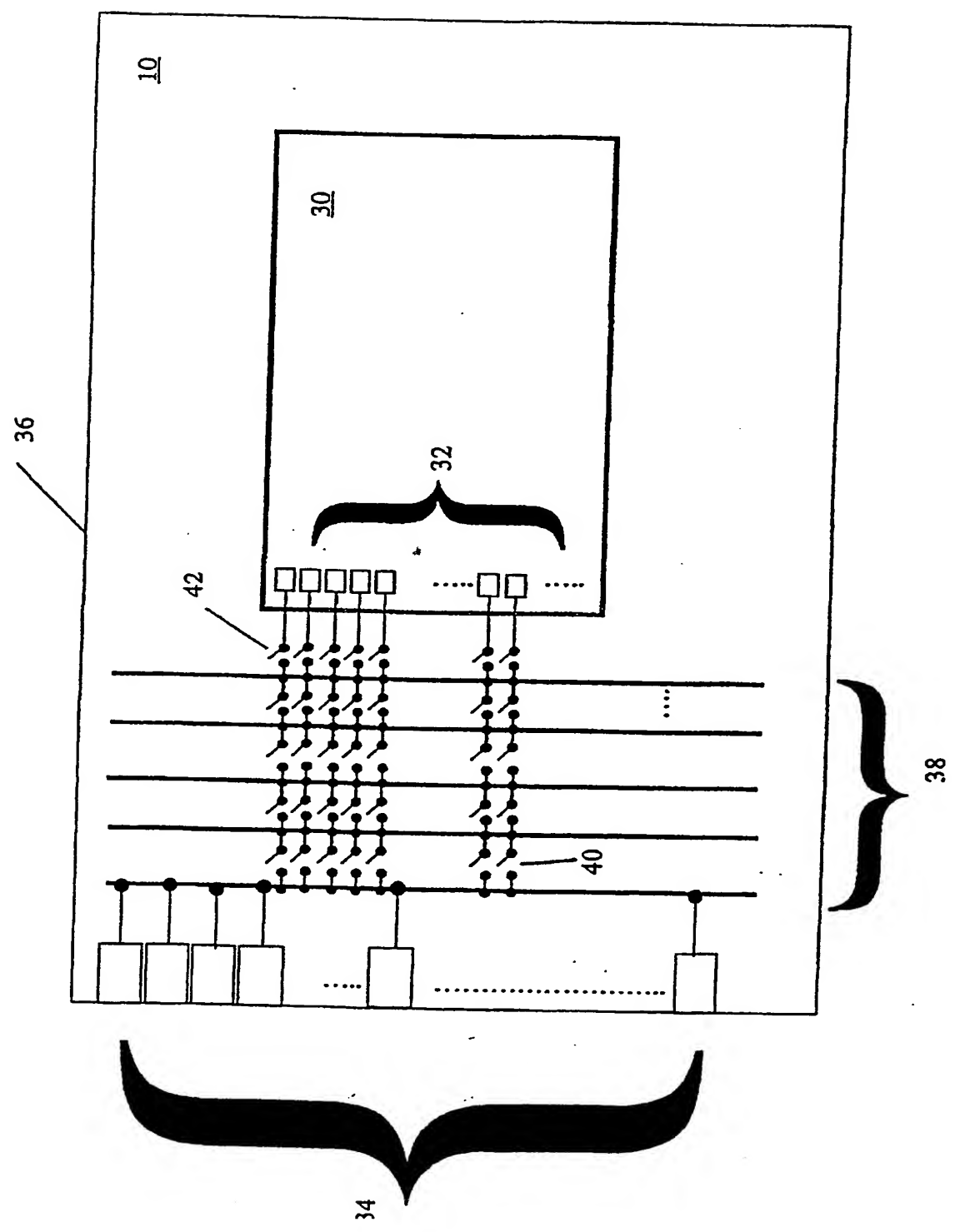
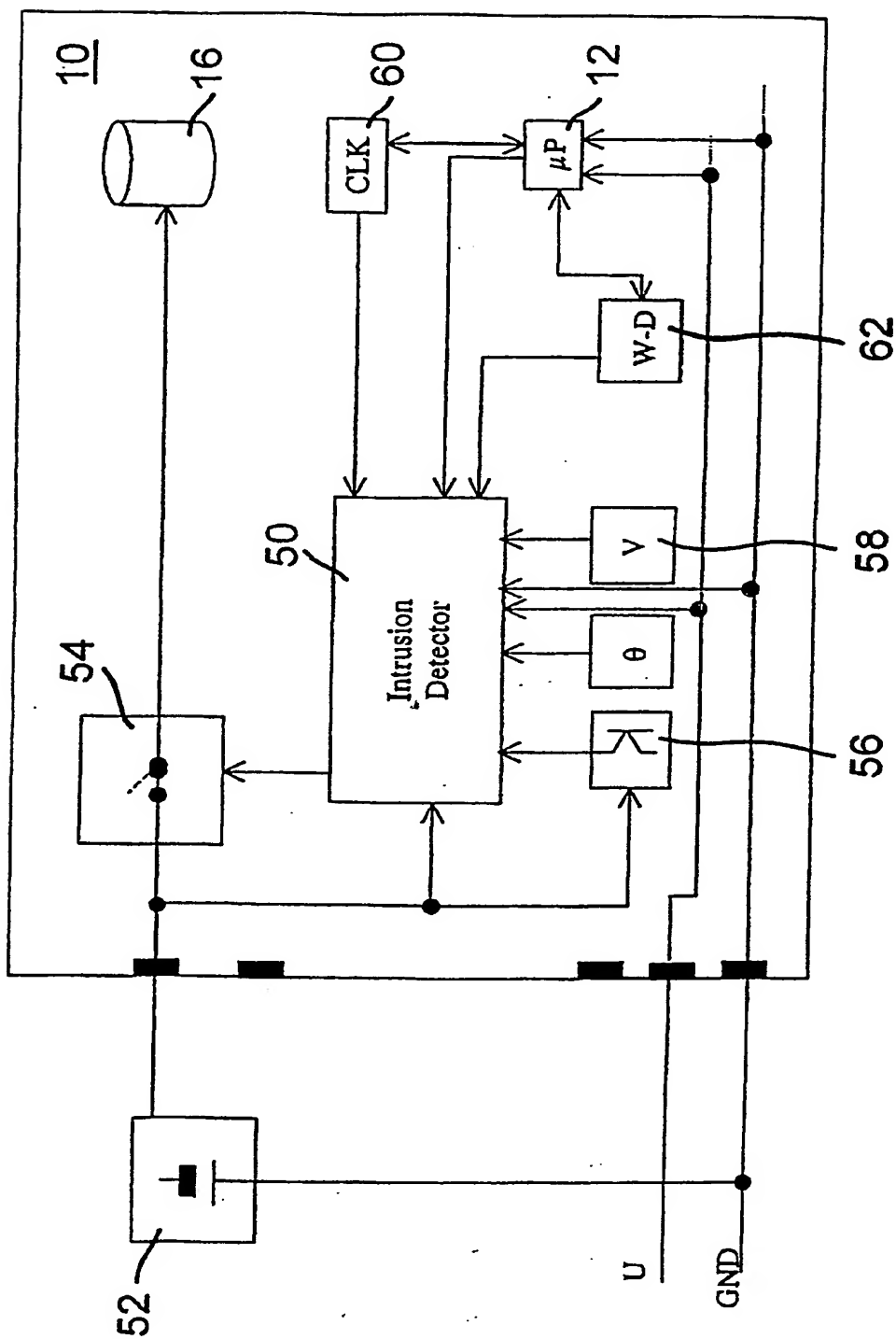


figure 11



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